		Adventures in Aero	nautics
		2007 Science	9
		Grade Expectati	ions
Vermont Science			
Grades 3-4			
Activity/Lesson	State	Standards	
Adventures in		SCI.3-4.S3-	Appropriate timing between observations
Aeronautics	VT	4:3.1.d	(intervals) and/or number of trials needed.
Adventures in Aeronautics	VT	SCI.3-4.S3-4:9.1	Investigating and measuring how the total weight of the parts of a substance, no matter how they are combined, remains the same (e.g., water and gravel mixture, or a Lego car system, or the weight of sugar plus the weight of water equals the total weight of the sugar solution) and drawing conclusions from these data.
Adventures in	VT	CCI 2 4 C2 4:0 o	All matter has weight that can be messured
Aeronautics	VT	5C1.3-4.53-4.9.a	All matter has weight that can be measured. The weight of the whole is the same as the sum
Adventures in Aeronautics	VT	SCI 2 4 S2 4:0 b	
Aeronaulics	VI	SCI.3-4.S3-4:9.b	Investigating and describing how different
Adventures in		SCI.3-4.S3-	amounts of force can change the position or
Aeronautics	VT	4:21.1	direction of motion of an object
Adventures in	VI	SCI.3-4.S3-	direction of motion of an object
Aeronautics	VT	4:21.b	The greater the force, the greater the change.
Acionautics	VI	7.21.0	The greater the force, the greater the change.
	I	Adventures in Aero	nautics
		2007 Science	9
		Grade Expectati	ions
Vermont Science			
Grades 5-6			
Activity/Lesson	State	Standards	
Adventures in Aeronautics	VT	SCI.5-6.S5- 6:19.1	Measuring and calculating speed (the distance an object moves over a measured amount of time).
Adventures in		SCI.5-6.S5-	Speed is a relationship between the distance an
Aeronautics	VT	6:19.b	object travels and time elapsed.
Adventures in		SCI.5-6.S5-	Investigating variables that change an object's speed, direction, or both, and identifying and describing the forces that cause the change in
Aeronautics	VT	6:21.1	motion.
Adventures in		SCI.5-6.S5-	A force applied to a moving object will change
Aeronautics	VT	6:21.a	the object's speed, direction or both.
Adventures in		SCI.5-6.S5-	
Aeronautics	VT	6:21.b	Friction is a force that often opposes motion.
			Gravity is the force that holds objects to the earth's surface, keeps planets in orbit around
Adventures in		SCI.5-6.S5-	the sun, and governs the rest of the motion in
Aeronautics	VT	6:22.a	the solar system.
Adventures in Aeronautics	VT	SCI.5-6.S5- 6:22.b	The force of gravity pulls toward the center of mass of an object.